START

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

91-PPB-360

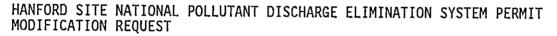
FEB 98 1991

Mr. R. S. Burd, Director Water Division U.S. Environmental Protection Agency 1200 Sixth Avenue, Mail Stop WD-131 Seattle, Washington 98101

Dear Mr. Burd:

不是这条

S Y WARRANT TO



Enclosed for your review and action are U.S. Environmental Protection Agency (EPA) General Information Form I, "Consolidated Permits Program," and EPA National Pollutant Discharge Elimination System (NPDES) Permit Forms 2C and 2D. This enclosure serves as a request for modification to the Hanford Site NPDES Permit Number WA-000374-3. The permit modification is being requested to allow for the operation of a new source outfall to the Columbia River. This outfall will serve the 300 Area Filter Plant (315 Building).

The 300 Area Filter Plant processes approximately 2 to 3.5 million gallons of water per day from the Columbia River for use in the 300 Area sanitary and fire distribution systems. Currently, filter backwash from the water treatment system is discharged to unlined ponds. These ponds utilize the soil column to filter sediment from the backwash as the water percolates downward. This project proposes to replace the unlined ponds with a lined sedimentation basin. The clear water decanted from the lined sedimentation basin would be discharged to the Columbia River via the proposed new outfall.

In accordance with an understanding reached between the Westinghouse Hanford Company and the EPA on September 5, 1990, it is noted that a topographical map has not been provided in response to Item XI of General Information Form 1. This map is currently being developed and will follow in approximately two months. It was also understood the EPA will begin review of the attached submittal before receipt of the topographical map, so that permit modification approval might not become a critical path for operation of the new discharge.





Should you have any questions regarding the above subject matter or the enclosed material, please contact Mr. R. G. Holt of my staff on (509) 376-9989.

Sincerely,

R. D. Izatz, Director

Environmental Restoration Division

ERD: RGH

Enclosure: NPDES Permit Modification Request

€F. 1.

cc w/encl:
P. T. Day, EPA
R. E. Lerch, WHC, w/o encl.

ENCLOSURE

.

نه المالي

v IDAG

.....

.

~

ST.

S

C .

	В.	operation detailed between certain	ons contributi descriptions nintakes, ope mining activit	ng wastewate in Item III-A. rations, treat	er to the effluer Construct a wat ment units, and pictorial descrip	nt, and treatment er balance on the outfalls. If a wat	icility. Indicate it units labeled to ne line drawing loter balance cannot re and amount o	o correspond to by showing aver not be determine	the more rage flows ed (e.g., for
	C.	Except f seasona	1]?	off, leaks, or s		the discharges	described in ite	m III-A be inter	mittent or
	 -		res (complete	r the following ta		quency		2. Flow	
i			Outfall Number		a. Days Per Week (specify average)	b. Months Per Year (specify average)	a. Maximum Daily Flow Rate (in mgd)	b. Maximum Total Volume (specify with units)	c. Duration (in days)
LO I			:						
•			,						
~ 1	,								· .
, C									
Marace 1	}							,	
- ***						•			w e
Pactor sa						,			
N							,		
******				Ì					(
<i>ري</i>				ļ					
				1					
i					•				
									} !
		D	·		2 *				
	If ac	ctual produ	applicable prod	uction-based ef design), express	fluent guideline or sed in the terms an	d units used in the	fall list the estimate applicable effluent rnative estimates (guideline or NSPS	, for each of the
		Year	a. Quantity Per Day	b. Units of Measure		c. Operatio	on, Product, Material, e	ic (specify)	•
				N/A			The state of the s		· · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·			·	· · · · · · · · · · · · · · · · · · ·	
	-				<u></u>			·	······

V. Effluent Characteristics

energiest von man einem ihr enter eiten eit dem dem eine eiten einem dem Mattelle eiten eiter eiter eine einem A, and B: These items require you to report estimated amounts (both concentration and mass) of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

General Instructions (See table 2D-2 for Pollutants)

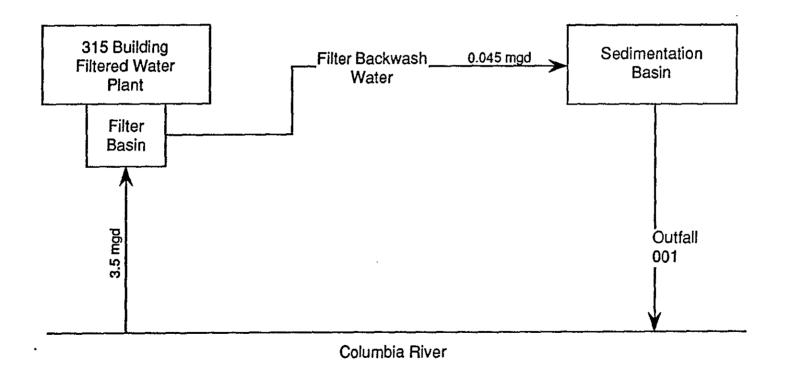
Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Məximum Dəily Vəlue (include units)	3. Average Daily Value (include units)	4. Source (see instructions)
Biochemical Oxygen Demand	Less than	N/A	
(BOD)			
Chemical Oxygen Demand (COD)	Less than 5 ppm	N/A	The data in this section was taken from:
Total Organic Carbon (TOC)	2.8 ppm	N/A	Jungfleisch, F., 1988, "Preliminary Evaluation of Hanford Liquid Discharges to Ground," WHC-EP-0052, Rev. 1, Westinghouse Hanford
•	į	····	Company, Richland, Washington.
Total Suspended Solids (TSS)	2 ppm	N/A	
Ammonia (as N)	Less than 0.1 ppm	N/A	
Temperature (winter)	8°C	N/A	
Temperature (summer)	20 ⁰ C	N/A	·
рН	7.9	7.6	Minimum daily value of 7.4
		<u></u>	
	,		•
	<u> </u>		
	; ;		

CO	NTINUED FROM THE FRONT	EPA ID Number (copy from Item 1 of Form 1) WA-000374-3
C.	Use the space below to list any reason to believe will be dischabelieve it will be present.	of the pollutants listed in Table 2D-3 of the instructions which you know or have irged from any outfall. For every pollutant you list, briefly describe the reasons you
1.	Pollutant	2. Reason for Discharge
	VI / A	
	N/A	
	•	'
	•	
	:	
		`
	1	·
·		
-		
٤		
		t .
]		
7		
·VI	. Engineering Report on Wastewater Trea	<u></u>
A.	If there is any technical evaluation con appropriate box below.	ncerning your wastewater treatment, including engineering reports or pilot plant studies, check the
ł	Report Available	☐ No Repart
в.	Provide the name and location	n of any existing plant(s) which, to the best of your knowledge, resembles this
-	production facility with respect	to production processes, wastewater constituents, or wastewater treatments.
1	Clearwells Filter	100K Area, Hanford Site
) E	Backwash (Outfall 004	•
	as permitted by	
'	MA-000374-3)	
	•	
	,	
1		

- 1 2 1 3 3 3 1 8

Attachment B
300 AREA FILTER PLANT BACKWASH



EPA ID Number (copy from item one of Form 1)

VII. Other Information (Ocuonal)	WA-UUU374-3
Use the space below to expand upon any of the above questions or to bring other information you feel should be considered in establishing permit Attach additional sheets if necessary.	to the attention of the reviewer any
It is noted that this proposed outfall is similar to outfall limitations for which are described on page 4 of NPDES Perm	1 004, effluent it WA-000374-3.
·	ð
1	
	•
	1
	i
VIII. Certification	
I certify under penalty of law that this document and all attachments we supervision in accordance with a system designed to assure that qualified evaluate the information submitted. Based on my inquiry of the person or puthose persons directly responsible for gathering the information, the information knowledge and belief, true, accurate, and complete. I am aware that there are false information, including the possibility of fine and imprisonment for knowledge.	fied personnel properly gather and persons who manage the system, or mation submitted is, to the best of my be significant penalties for submitting
A Name and Official Title (type or print)	B. Phone No.

Ç.

7

 \Box

70

26 NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS

Consolidated Permits Program

OUTFALL NUMBER	8,	LATITUD	E	C, L	ONGITUI	⊃E	D. DEGENANO WARREN (Name)
(list)	1, DEG.	2. MIN.	3. SEC.	1. DEG.	Z. MIN.	3, SEC.	D. RECEIVING WATER (name)
1	46	22	12.25	119	16	16.09	Columbia River .
						•	
							*
		 			 		

- Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

Ć.	7	ditional sheets if necessary.	,								
we.	1. OUT-	2. OPERATION(S) CONTRIBUT	NG FLOW	3. TREATMENT							
۱	1. OUT- FALLNO (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1						
	, 1	Water Supply Treatment Plant	0:045 mgd	Sedimentation of Suspended	1-U ·						
Ф	,	Serving Federal Facilities		Materials							
	,			1							
				,							
1											
	5										
Į	=										
	_										
				•							
1			•								
١											
			•								
	Ī										
ĺ											
	Ī										
ĺ											
					 						
ĺ	OFFICIA	USE ONLY (effluent guidelines sub categories)		. •	<u> </u>						

	··				3. FREG	UENCY			4. FLOW			
OUTFALL	2. OPE	ATIO	M/el		a. DAYS	b. MONTHS	a. FLOW		b, TOTAL			
NUMBER	CONTRIB	JTING	FLOW	7	PER WEEK	PER YEAR	(in n		(specify u	oith unita)	C DU	
(list)	······························	list)			(specify average)	(specify average)	AVERAGE	2. MAXIMUM DAILY	AVERAGE	Z. MAXIMUM DAILY	(in day	
									!			
	N/A											
								:	į			
								į			! :	
PRODUCTION		i si wa	18.0		124 3 600		AN AGE		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"有现场表现 "	39744	
	t guideline limitatio complete Item III-		ulgated				Nater Act app		ifity?	THE PARTY OF THE P		
	ons in the applicabl complete Item III-		nt guide	line expresse	d in terms of (production <i>(ar</i>		r e of aperatio o Section IV)			`	
If you answere used in the app	d "yes" to Item III-E olicable effluent gu	, list the	quanti and in	ity which rep dicate the al	resents an ac fected outfall	tual measurei s.	ment of your l	evel of produ	ction, express	ed in the term	s and ur	
			1. A	VERAGE DA	ZERAGE DAILY PRODUCTION							
QUANTITY PER E	b. UNITS O	F MEAS)RE	·	C. OPE	PATION, PRODU (SPEC		, ETC.		OUTF (list outfall		
			1	N/A					ļ			
										_		
			}									
									ļ			
		,	1									
				4 .								
IMPROVEMENT	rs :			建建合物	ALCO MANAGEMENT	i de la companya de	l Augusta		BURNES IN	Sec.		
water treatment but is not limite	quired by any Fed equipment or pra ed to, permit condi	ctices o	r any ot	her environ	nental program	ns which may	affect the di	scharges desc	ribed in this a	polication? Th	ris incluc	
or losn conditio					following tab	ole)	X NO (RO to	o Item IV-B)		4. FIN	AL GO	
AGREEME	N OF CONDITION NT, ETC.	8. NO.		TED OUTFALLS 3. BRIEF DESCRIPTION OF PROJECT PROSE OF DISCHARGE							D DATE	
N/A												
	* 1 (•			•			
						-		•				

EPA Form 3510-2C (Rev. 2-85)

CONTINUED FROM PAGE 2

WA-000374-3

N/A N/A N/A N/A N/A N/A N/A N/A	D. Use the space below to list any discharged from any outfall. For	of the pollutants listed in Table 2c-3 or every pollutant you list, briefly described	of the instructions, which you know or have reast cribe the reasons you believe it to be present and	on to believe is discharged or may b
VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS Is any pollutran flisted in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES first all such polluturits below) No (so to Item VI.3)	possession.	****		······································
VI. POTENTIAL DISCHANGES NOT COVERED BY ANALYSIS A HEALT SEASON AND ANALYSIS A HEALT SEASON AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANA	1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)	N/A			·
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)				
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)				
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)				,
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)				
ts any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such polluturis below)	-			•
□YES (list all such pollutunts below) □YES (list all such pollutunts below)	VI. POTENTIAL DISCHARGES NOT	COVERED BY ANALYSIS	e which you currently use or manufacture as an	ntermediate or final product or
	byproduct?		-	
		S (list all such pollutunts below)	NO (go to Hem VI-	B)
			•	
	:			
	•			1
	•			1
	•			,
	•			
				•
			•	
				ı

Do you have any knowledge or reason (ecciving water in relation to your disch	o believe that any biological test for acute or chronic targe within the last 3 years?	oxicity has been made on an	y of your discharges or on a
YES (identify	the test(s) and describe their purposes below)	X NO (RO to S	Section VIII)
	•		
		•	
N/A			
ŧ			
!		1	
		•	`
ł			
	'		•
re any of the analyses reported in Ite	m V performed by a contract laboratory or consulting	firm? -	ection IX)
re any of the analyses reported in Ite YES (list the analyzed)	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in Ite	m V performed by a contract laboratory or consulting	firm? -	
re any of the analyses reported in Ite YES (list the analyzed	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in Ite YES (list the analyzed	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in Ite YES (list the analyzed	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
re any of the analyses reported in ite analyzed A. NAME	m V performed by a contract laboratory or consulting name, address, and telephone number of, and pollutant by, each such laboratory or firm below)	firm? - ts (X) NO (go to S	ID. POLLUTANTS ANALY
A. NAME N/A	m V performed by a contract laboratory or consulting tame, address, and telephone number of, and pollutant by, each such laboratory or firm below! B. ADDRESS	ts No (go to S C. TELEPHONE (area code & no.)	ID. POLLUTANTS ANALY
PES (list the analyses reported in Ite analyzed A. NAME N/A	m V performed by a contract laboratory or consulting tame, address, and telephone number of, and pollutant by, each such laboratory or firm below! B. ADDRESS	ts Mo (go. to S C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALY
ERTIFICATION ERTIFICATION Tiffy under penalty of law that this do ure that qualified personnel properly.	m V performed by a contract laboratory or consulting tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS cument and all attachments were prepared under my gather and evaluate the information submitted. Based	direction or supervision in a on my inquiry of the person	ccordance with a system designe
ERTIFICATION A. NAME RETURN Tify under penalty of law that this do ure that qualified personnel properly is persons directly responsible for gat	am V performed by a contract laboratory or consulting tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS cument and all ettechments were prepared under my gather and evaluate the information submitted. Based hering the information, the information submitted is, to	c. TELEPHONE (area code & no.) direction or supervision in a on my inquiry of the person of the best of my knowledge and the best o	ccordance with a system designe persons who manage the system deliant true, accurate, and comp
ERTIFICATION A. NAME N/A N/A N/A N/A N/A	tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS B. ADDRESS	direction or supervision in a on my inquiry of the person of the best of my knowledge and persons be possibility of fine and imp	ccordance with a system designe in persons who manage the system delial, true, eccurate, and comprisonment for knowing violation.
ERTIFICATION A. NAME N/A N/A N/A N/A N/A	tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS B. ADDRESS	direction or supervision in a on my inquiry of the person of the best of my knowledge and persons be possibility of fine and imp	ccordance with a system designe persons who manage the system deliant true, accurate, and comp
ERTIFICATION A. NAME N/A N/A N/A N/A N/A	tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS B. ADDRESS	direction or supervision in a on my inquiry of the person of the best of my knowledge and persons be possibility of fine and imp	ccordance with a system designe in persons who manage the system delial, true, eccurate, and comprisonment for knowing violation.
CERTIFICATION N/A CERTIFICATION Partify under penalty of law that this do sure that qualified personnel properly is persons directly responsible for gat	tame, address, and telephone number of, and pollutant by, each such laboratory or firm below) B. ADDRESS B. ADDRESS	direction or supervision in a on my inquiry of the person of the best of my knowledge and persons be possibility of fine and imp	ccordance with a system designe rpersons who manage the system delief, true, accurate, and comprisonment for knowing violation.

EPA Form 3510-2C (Rev. 2-85)

Ç.

PAGE 4 OF 4

1 | 2 | 3 3 0 2 " 4

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.

SEE INSTRUCTIONS.

EPA 1.D. NUMBER (copy from Item 1 of Form 1)

WA-000374-3

Form Approved OMB No. 2040-0086 Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

l	1			···	idealit in tina tai	ie. Complete	One table to	each outlan.	SEE HISHIUCI	nons for additio	nai detans.	
				. EFFLUENT		•		3, UN (specify it		4. 1N	TAKE (optiona	il)
1. POLLUTANT	8. MAXIMUM	DAILY VALUE	b. MAXIMUM 2	O DAY VALUE	c.LONG TERM	AVRG. VALUE	d 80 0F		(siank)	a, LONG AVERAG	TERM	b. NO. OF
	CONCENTRATION	(Z) MASS	(1) EDNCENTHATION	(2) MASS	(1)	(2) MASS	d. NO. OF ANALYSES	8. CONCEN- TRATION	b. MASS	(1)	(2) MASS	ANALYSES
e. Biochemical Oxygen Demand (BOD)	<1.5	<255,487.		•		_	1	ppm	mg		•	,
b. Chemical Oxygen Demand (COD)	< 5	<851,625					1	ppm	mg		_	
c. Total Organic Carbon <i>(TOC)</i>	2.8	476,910					1	ppm	mg		_	
d, Total Suspended Sotids (TSS)	2	340,650	:				36	ppm	mg			
e. Ammonia (as N)	<0.1	<17,032.5					1	ppm	mg			
f. Flow	VALUE		VALUE		VALUE			·····		VALUE		
. 1 104	45,000 ga	llons] 1					-
g, Temperature (winter)	8°C		VALUE		VALUE	· · · · · · · · · · · · · · · · · ·	1	°C	<u> </u>	VALUE		
h. Temperature	VALUE		VALUE		VALUE					VALUE		
(summer)	20°C						1 1	°C				ľ
		MUMIXAM	MUMINIM	MAXIMUM			 		··· ·- ·- ·-		· · · ·	
i, pH	7.4	7.9					24	STANDARI	STINU		>	

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUT- ANT AND	2. MA	יאי אה	-			EFFLUENT				4. UI	VITS	5. INT	AKE (optiona	1)
CAS NO.	a, se-			DAILY VALUE	b. MAXIMUM 3	DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO. OF	a. CONCEN-	b. MASS	8. LONG AVERAGE	TERM VALUE	b No. of
(if available)	PRE- SENT	SENT	(1) CONCENTRATION	{2} MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(z) MASS	YSES	" RATION	D. MASS .	CONCENTRATION	(2) MASS	ANAL- YSES
a. Bromide (24959-67-9)		х											•	
b. Chlorine, Total Residual		Х												
c. Color		х					•							
d. Fecal : Coliform :		χ				s	+							
e. Fluoride (16984-48-8)		χ		•										
f. Nitrate— Nitrite (as N)		х).					. •	7			•		

9 | | 2 | 1 | 1 | 0 | 2 | 5

ITEM V-B CON	F	FK 'X	MI I NOIL			EFFLUENT	<u></u>			4. U	NUTS	EINT	AKE (optional	
I. POLLUT- ANT AND CAS NO.	E		0.0000000000000000000000000000000000000				C, LONG TERM	AVRG. VALUE	14 00 05		1112			
CAS NO. (if available)	FRE- SENT	AB- SENT	a. MAXIMUM E	(2) MASS	(if ava	ilable) (2) MASS	(if aud (1) CONCENTRATION	(2) MASS	ANAL- YSES	a. CONCEN- TRATION	b. MASS	AVERAG	E VALUE	NO.OF ANAL- YSES
			CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	1353			CONCENTRATION	(2) MASS	7323
g. Nitrogen, Total Organic (as N)		χ												
h. Oil and Grease		Х												
i, Phosphorus (as P), Total (7723-14-0)		X						 						
j, Radioactivity	L1													1
(1) Alpha, Total		Х												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X									<u> </u>			
k. Sulfate (as SO ₄) (14808-79-8)		^ X									· · · · · · · · · · · · · · · · · · ·			
(14808-79-8) I. Suifide (as 3)		_^ X_										·		
m. Sulfite (as SO ₃) (14265-45-3)		Х												
n. Surfectants		х												
o. Aluminum, Total (7429-90-5)		χ					·						· · · · · · · · · · · · · · · · · · ·	
p. Barlum, Total (7440-39-3)		х											-	
q. 8oron, Total (7440-42-8)		Х												
r. Cobalt, Total (7440-48-4)		·X									····			
s. Iron, Total (7439-89-6)		Х			•									
t. Magnesium, Total (7439-95-4)		χ̈́												
u. Molybdenum, Total (7439-98-7)		X					u.							
v. Manganese, Total (7439-96-5)		Х								· · · · · · · · · · · · · · · · · · ·			 	
w. Tin, Total (7440-31-5)		X							,					
x. Titanium, Total (7440-32-6)		Х						· ·			······································			

EPA LD. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

CONTINUED FROM PAGE 3 OF FORM 2-C

WA-000374-3

1

Form Approved GIME No. 2040-0086 Approval expires 7-31-88

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table [all 7 pages] for each outfall. See instructions for additional details and requirements.

				The Care 7 pages	to the part, pier	ase leview each	 	are energing ton							
1. POLLUTANT		MARK					EFFLUENT		4, UN	VITS	1	TAKE (option			
AND CAS NUMBER	ATEST	D. HE-	C SE.	8. MAXIMUM (DAILY VALUE			C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN- TRATION	b, MASS	a. LONG AVERAG	TERM E VALUE	b. NO. OF
					(2) MASS	(1) CONCENTRATION	(2) MASS	(i) CONCENTRATION	(z) MASS	YSES	TRATION		(I) CONCEN- TPATION	(2) MASS	YSES
METALS, CYANIDI	E, ANI	ATOT C													
1M. Antimony, Total (7440-36-0)			Х		· · · · · · · · · · · · · · · · · · ·										
2M. Arsenic, Total (7440-38-2)			Х												
3M. Beryllium, Total, 7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			Х												
5M. Chromium, Total (7440-47-3)			Х												
6M. Copper, Total (7440-50-8)			Χ			_									
7M. Lead, Total (7439-92-1)			χ.						·						
8M, Mercury, Total (7439-97-6)			χ	_	·										
9M. Nickel, Total (7440-02-0)			Χ							•					
10M. Selenium, Total (7782-49-2)			χ			·									
11M. Silver, Total (7440-22-4)			Χ												
12M. Thallium, Total (7440-28-0)			Х	•											
13M. Zinc, Total (7440-66-6)			χ					in the second							
14M. Cyanide, Total (57-12-5)			χ					,,,,,							
15M. Phenols, Total			Х												
DIOXIN						•									

DESCRIBE RESULTS 2.3.7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)

9 | | 2 | | | 0 | 7

1. POLLUTANT		MARK				a +	EFFLUENT				4 111	VITS	R IN	TAKE (optic	on H
				a, MAXIMUM I	DAILYVALUE			c.LONG TERM	AVRG. VALUE	d NO.OF		*****		TERM	b. NO.
NUMBER (if available)	ING RE-	D, BE- LIEVEO PRE- SENT	LIEVEC	CONCENTRATION	(2) MASS	(1)	(4012) (2) MASS	(1)	(¿) MASS	ANAL- YSES		b, MASS	AVERAG	EVALUE	ANA YSE
GC/MS FRACTION	- VO	LATI	E COM	POLINOS	(2) 1123	CONCENTRATION	, , , , , , , , , , , , , , , , , , , ,	CONCENTRATION	(2)	1323			TRATION	(2) MASS	+
·				T CONDO			<u> </u>			 				 	
1V. Acrolein (107-02-8)			Х									-			
2V. Acrylonitrile (107-13-1)			Χ				·-								
3V. Benzene (71-43-2)			X								,				
4V. Bis (Chloro- methyl) Ether (542-88-1)			χ												
5V. Bramofarm (75-25-2)		•	х											•	
6V. Carbon Tetrachloride (56-23-5)			χ												
7V. Chlorobenzene (108-90-7)			Χ									-			
8V. Chlorodi- bromomethane (124-48-1)			χ	·											
9V. Chloroethane (75-00-3)			X	·								-		-	
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	=		Χ				,							 	
11V. Chloroform (67-66-3)			χ									•			
12V. Dichloro- bromomethene (75-27-4)			χ.												
13V. Dichloro- difluoromethane (75-71-8)			χ									, - "		,	
14V. 1,1-Dichloro- ethana (75-34-3)	,		χ			·									
15V. 1,2-Dichloro- ethane (107-06-2)			χ									·			
16V. 1,1-Dichloro- ethylene (75-35-4)			Х								•				
17V. 1,2-Dichloro- propane (78-87-5)		•	Х						•			-			
18V. 1,3-Dichloro- propylene (542-75-6)			Х			-		Ìo.							
19V. Ethylbenzene (100-41-4)			Χ												
20V. Methyl Bromide (74-83-9)			Х		•				,			,			1
21V. Methyl Chloride (74-87-3)			χ		· · · · · · · · · · · · · · · · · · ·										1

CONTINUED FROM	PAGE	· V-4			WA:	-060374-3	Company of the	^{/////}	t ₁ 3			Approval expir			
1. POLLUTANT		MARK	.х.				EFFLUENT				4, UI	VITS	5, INT	AKE (optio	onal)
AND CAS NUMBER	a TEST	b. ae-	C DE-	a. MAXIMUM E	AILY VALUE		O DAY VALUE	CLONG TERM	AVRG. VALUE	d NO OF	à. CONCEN-		8. LONG	TERM	b NO OF
(if available)	RE-	D. BE- LIEVED PRE- SENT	SENT	(I)	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	b. MASS	(1) CONCEN- TRATION	(2) MASS	ANAL-
GC/MS FRACTION				00.141.11111111111111111111111111111111	ued)	CONCENTRATION		CONCENTRATION					1.2.10.		
22V. Methylene Chloride (75-09-2)			χ												
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)			Х			•								-	
24V, Tetrachloro- ethylene (127-18-4)			χ				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				•				
25V, Toluene (108-88-3)			Х			•								- 1	
26V, 1,2-Trans- Dichlorosthylene (156-60-5)			χ												
27V. 1,1,1-Tri- chloroethane (71-55-6)		•	χ		······································		•								
28V. 1,1,2-Tri- chloroethane (79-00-5)			χ												
29V. Trichloro- ethylene (79-01-6)			Χ												
30V. Trichloro- fluoromethane (75-69-4)			χ												
31V. Vinyl Chloride (75-01-4)			χ									-			
GC/MS FRACTION	- ACI	D COM	POUN	DS						<u> </u>					<u> </u>
1 A. 2-Chlorophenol (95-57-8)			Х								<u></u>				
2A. 2,4-Dichtoro- phenol (120-83-2)			χ					•							
3A. 2,4-Dimethyl- phenol (105-67-9)			X				•								
4A. 4,6-Dinitro-O- Cresol (534-52-1)			Х												
5A. 2,4-Dinitro- phenol (51-28-5)			Х												ļ
6A. 2-Nitrophenol (88-75-5)			χ												
7A. 4-Nitrophenol (100-02-7)			Х		,			•							
8A. P-Chloro-M- Cresol (59-50-7)			Х	,											
9A. Pentachloro- phenol (87-86-5)			<u>x</u>							:			<u> </u>		
10A. Phenol (108-95-2)			х						,						
11A. 2,4,6-Tri- chlorophenol (88-06-2)			Х												Description
EDA E- 0040 0	n an	2 00					PAG	E V-5					COI	NTINUE ON	HEVERSE

1. POLLUTANT AND CAS	2.	MARK	'x'			3.	EFFLUENT				4. U	NITS	5. IN	TAKE (opti	ional)
NUMBER	A TEST	PRE-	C SE-	a. MAXIMUM E	PAILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-	1		TERM E VALUE	b. NO.
	_				(2) MASS	CONCENTRATION	(z) MASE	(I)	(2) MASS	YSES	TRATION	b. MASS	[1] CONCEN-	(2) MASS	- ANA
GC/MS FRACTION	BA	SE/NEC	TRAI	COMPOUNDS			*.								
18. Acenaphthene (83-32-9)			Х					}							
2B. Acenaphtylene (208-96-8)			X												1
38. Anthracene (120-12-7)			χ	-											1
4B. Benzidine (92-87-5)			χ				· · · · · · · · · · · · · · · · · · ·								
5B. Benzo (a) Anthracene (56-55-3)			Х								·				1
68. Benzo <i>(a)</i> Pyrene (50-32-8)			Χ				-								
78. 3,4-Benzo- fluoranthene (205-99-2)			χ							,					}
88. Benzo (ghi) Perylene (191-24-2)			χ											 	-
98. Benzo (k) Fluoranthene (207-08-9)			Х			·	,					 			1
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			Х											<u></u>	+
118. Bis (2-Chloro- ethyl) Ether (111-44-4)			Х									<u>,</u>			
128. Bis (2-Chloroise- oropyl) Ether (102-60-1)	_		Х												
138. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			Х				·								1
148. 4-Bromo- phenyl Phenyl Ether (101-55-3)			Х					·							-
158. Butyl Banzyl Phthalate (85-68-7)			Х				······································					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-
16B. 2-Chloro- naphthalene (91-58-7)			Х		·										1
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)		·	Х												-
188. Chrysene (218-01-9)			Х					4							
198. Dibenzo <i>(a,h)</i> Anthracene (53-70-3)			Х					· · · · · · · · · · · · · · · · · · ·						· 	
208. 1,2-Dichloro- benzene (95-50-1)			Х						,					· · · · · · · · · · · · · · · · · · ·	
21B. 1,3-Dichloro- benzene (541-73-1)			х					*	<u> </u>						+

WA-000374-1

Form Approved OMB No 2040-0086 Approval expires 7-31-88

CONTINUED FRO	м РАС	SE V-6			* WA-0	00374-1			1			Approval expi	es 7-31-88		
1. POLLUTANT		MARK	'X'			3. 4	EFFLUENT				4UN	IITS		AKE (uptio	
AND CAS NUMBER	8 76 ST	b er-	C se-	a, MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d. NO. OF	a CONCEN-		a, LONG AVERAG	TERM	b. NO OF
(if available)	RL-	D. DE- LIEVED PRL- SENT	AB. SERT	CONCENTRATION	(2) MASS	(1)	(2) MASS	CONCENTRATION	[2] MASS	ANAL.	a, CONCEN- TRATION	b, MASS	(I) CONCEN-	(2) MASS	ANAL.
GC/MS FRACTION	– BA	SE/NEU	JTRAI	COMPOUNDS	continued!										
22B. 1,4-Dichloro- benzene (106-46-7)			Х				,							,	
23B. 3,3'-Dichloro- benzidine (91-94-1)			Χ						_						
24B, Diethyl Phthelate (84-66-2)			χ												
25B, Dimethyl Phthalate (131-11-3)			Χ									,,,,,		•	:
26B, Di-N-Butyl Phthalate (84-74-2)			χ				,			P					
27B. 2,4-Dinitro- toluene (121-14-2)			Х												
28B. 2,6-Dinitro- toluene (606-20-2)			Х									·			
29B. Di-N-Octyl Phthalate (117-84-0)			Χ			•									
308. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			Χ												
31B. Fluoranthene (206-44-0)			Х		•		·								
32B. Fluorene (86-73-7)			Х												
33B. Hexachlorobenzene (118-74-1)			Х						_					·	
34B. Hexa- chlorobutadiene (87-68-3)			Х												
358. Hexachloro- cyclopentadiene (77-47-4)			Х												
36B. Hexachloro- ethane (67-72-1)			χ												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			χ											,	
388. (sophorone (78-59-1)			χ												
39B. Naphthalene (91-20-3)			Х												
40B. Nitrobenzene (98-95-3)	l.		χ												
41B. N-Nitro- sodimethylamine (62-75-9)			Х								-				
42B. N-Nitrosodi- N-Propylamine (621-64-7)			Х												

9 1 1 2 1 2 1 0 2 3 1

CONTINUED FROM 1. POLLUTANT		MARK													
						J.	EFFLUENT	CLONG TERM	AVDG VALUE		4. Ur	VITS		TAKE (optio	
NUMBER	ING HR-	PIEAEC	COE	a, MAXIMUM E	DAILY VALUE	(if ava		c,LONG TERM	flable)	M NO. OF	a, CONCEN- TRATION	b. MASS	AVERAG	TERM E VALUE	D NO.C
(if available)	QUIR-	SENT	SENT	CONCENTRATION	(Z) MASS	(1) CONCENTRATION	(t) MASS	(1)	(2) MASS	ANAL- YSES	TRATION		(1) CONCEN-	[2] MASS	YSES
GC/MS FRACTION	– BA	SE/NE	UTRAI	L COMPOUNDS	(continued)	<u></u>		<u>i</u>	<u> </u>					·	T
43B. N-Nitro- sodiphenylamine (86-30-6)			Х												
448. Phenanthrene (85-01-8)			Χ								<u>"</u>				
45B. Pyrana (129-00-0)			χ	-									,		
468. 1,2,4 - Tri- chlorobenzene (120-82-1)			X												
GC/MS FRACTION	- PES	TICID	ES							Į ————			1		1
1P. Aldrin (309-00-2)			χ												
2P, <i>Q</i> -BHC ² (319-84-6)			Х												
з Р. β-внс (319-85-7)			χ				·		<u> </u>			<u> </u>			
4P, γ-BHC (58-89-9)			Х											1	
5P. δ-8HC (319-86-8)		i	Х						-						
6P. Chlordane (57-74-9)			Х									- <u> </u>		<u> </u>	
7P. 4,4'-DDT (50-29-3)			Х		-									<u> </u>	
8P. 4,4'-DDE (72-55-9)			Х						<u></u>			· , · · · · · · · · · · · · · · · · · 			
9P. 4,4'-DOD (72-54-8)			Х				·····								
10P. Dieldrin (60-57-1)			Х												
11P. a-Endosulfan (115-29-7)		•	Х											•	}
12P. β-Endosulfan (115-29-7)	 		X										·	 .	
13P, Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			Х	.											
15P, Endrin Aldehyde (7421-93-4)			Х						,			 			-
16P, Heptachior (76-44-8)			X												-

1121 303 2

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER
WA_DOO374_3

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

CONTINUED FROM	1 PAGE	V-8			MA-	<u>000374-3</u>		<u></u>		1				Approva	expires 7-31-6		-
1. POLLUTANT	2. !	MARK	X'				EFFLUENT							NITS	5. IN	FAKE (opti	onal)
	a test	D. OE-	C SE-	a. MAXIMUM D	DAILY VALUE	b. MAXIMUM 3	DAY VALUE			AVRG. V	ALUE	ப் NO.OF ANAL∙		b. MASS	AVERAG	TERM E VALUE	b. NO. (
(if available)		PRE-			{z} MASS	CONCENTRATION	(2) MASS	CONCE	I)	(z) M.	A 5 5	YSES	TRATION	0. MASS	(I) CONCEN-	(2) MASS	YSES
GC/MS FRACTION	PES	TICID	S (co	ntinued)													
17P. Heptachlor Epoxide (1024-57-3)			X				•			,						-	
18P. PCB-1242 (53469-21-9)			χ						•							·	
19P. PCB-1254 (11097-69-1)			χ														
20P. PCB-1221 (11104-28-2)			χ	-ba-dhammay-ia-							_						
21P. PCB-1232 (11141-16-5)			χ														
22P, PCB-1248 (12672-29-6)			Χ													,	
23P. PC8-1260 (11096-82-5)			χ														
24P. PCB-1016 (12674-11-2)			Χ														
25P, Toxaphene (8001-35-2)			Χ														

PAGE V-9

(fill-in areas are spaced for elite t											
FORM					CTION AGENCY	_ - -	1.	EPA I.D. NUMBER			
GENERAL SEPA	GEIN Co (Read the "	nsolida	ted	Permits P	IATION rogram ' before starting.)		F	WA-000374-3	1 T	ı "] 	7/A E D
LABEL ITEMS	11/1/		7	1	1111	77	+	GENERAL INSTR	UCTI	ONS	
I. EPA I.D. NUMBER		//	\ \	///	/////	///		f a preprinted label has be in the designated space.			
	//////	//	$\overline{}$	(/////	(\ a	tion carefully; if any of it	is in	corre	ct, cross
III. FACILITY NAME	///////////////////////////////////////	//		.	.			nrough it and enter the oppropriate fill—in area bel			
FACILITY	<i>i.</i>	$^{\prime}$		//	/////	//	1 1	ne preprinted data is abse	nt <i>(th</i>	e area	e to the
V. MAILING ADDRESS	PLEASE PLA	ACE L	A	BEL IN	THIS SPACE	//,) t	oft of the label space list that should appear), please	: pro	vide i:	t in the
	//.//-/.	7		/_/		$' \ / \ '$		roper fill—in area <i>ls)</i> belo ompiete and correct, you			
	//////	//		//			. 11	rems I, III, V, and VI (xcep	t VI-I	B which
VI FACILITY		'/'	/	//		//		<i>just be completed regard</i> ems if no label has been			
VI. LOCATION	/////	//	ν,		/////			he instructions for deta ons and for the legal at			
	//////	//	$\overline{}$	' / '	/////	' / '		hich this data is collected.		, autor	
II. POLLUTANT CHARACTERI	STICS		_								
INSTRUCTIONS: Complete A	through J to determine w	hether	vau	need to	submit any parmit a	policatio	on fo	rms to the EPA. If you ans	ver "	ves" t	ด ลกง
questions, you must submit the	is form and the supplement	tal form	n lis	ted in the	parenthesis following	ng the qu	testio	n. Mark "X" in the box in	the th	ird co	lumn
if the supplemental form is att	ached. If you answer "no"	to each	h qı	testion, y	ou need not submit a	any of th	ese fo	orms. You may answer "no	" if y	our ac	tivity
is excluded from permit require	ments; see Section C of the				o, section is of the if	nstructio	ns to	astinitions of pola—taced			
SPECIFIC QUE	STIONS	YES N	10	FORM TTACHED	SI	PECIFIC	QUE	STIONS	YXX	HO	K 'X' FORM ATTACHED
A. Is this facility a publicly					B. Does or will the	is facility	/ (ait	her existing or proposed) nal feeding operation or			,
which results in a discharge (FORM 2A)	e to waters of the U.S.?]];	Х		aquatic animal	product	ion f	acility which results in a]	X	
C. Is this a facility which curr	antly results in discharge		17	18	discharge to war			S.? (FORM 28) ther than those described	10	20	21
, to waters of the U.S. othe			X		in A or B abou	<i>ve)</i> which	h wil	I result in a discharge to	X		
A or B above? (FORM 2C)	<u> </u>	22 . 1	23		Waters of the U.			(i) this facility industrial or	25	29	27
E. Does or will this facility the hazardous wastes? (FORM 3	reat, store, or dispose of		χ		municipal efflu	ent belo	w the	lowermost stratum con-		X	
The state of the s	•			30				mile of the well bore, ting water? (FORM 4)	-31	^	
G. Do you or will you inject at		28 -2	20					this facility fluids for spe-	- 2'	32	33
water or other fluids which in connection with conventi					cial processes s	such as r	ninin	g of sulfur by the Frasch	}	,	i
duction, inject fluids used oil or natural gas, or inject			X					minerals, in situ combus- ry of geothermal energy?	1	X	
hydrocarbons? (FORM 4)		34 3	38	36	(FORM 4)			· · · · · · · · · · · · · · · · · · ·	37	30	3.9
l. Is this facility a proposed to one of the 28 industrial of			- }		J. Is this facility NOT one of the	a propo: he 28 inc	sed si dustri	tationary source which is all categories listed in the	ł	-	'
structions and which will per year of any air pollu			χİ		instructions and	d which	will ;	potentially emit 250 tons regulated under the Clean.		X	1
 Clean Air Act and may at 					Air Act and ma	ay affect	or be	located in an attainment			
attainment area? (FORM 5)	-	40 4	41	42	area? (FORM 5	}		,	43	44	43
			1			1 1	-	, , , , , , , , , , , , , , , , , , , 	1		
1 SKIP U.S. Departmen	t of Energy-Rich	land	Ų	perati	ons Office						
IV. FACILITY CONTACT								· · · · · · · · · · · · · · · · · · ·			
	A. NAME & TITLE (last, fir		(le)				9. PH	ONE (area code & no.)			
2 Izatt, R. D., Di	rector - Environ	ment	аĪ	Resto	ration Div.	50	9	376 5441			
V. FACILITY MAILING ADDRE	:00	<u></u>				45 46	- 40	A9 - S1 52 - 56		فسيس	
V. FACILITY MAILING ADDRE	A. STREET OR P.O.	BOX			<u>-`.</u>						
		1	1		 	H					,
3 P.O. Box 550						-					
	B. CITY OR TOWN				C.STATE D	. ZIP CO	DE				
4 Richland,	·	· · · · · ·	1	1		9352	1				
13 16		·			40 WA 47		- ET				
VI. FACILITY LOCATION	NAME OF THE OWNER OWNER OF THE OWNER							•			
	ROUTE NO. OR OTHER S	PECIFU		PENTIFII	5R	\vdash	*	,			
5 Hanford Site											
	COUNTY NAME					44.					
Renton	1111111	<u> </u>	Т	1 1 1					,		
Benton					78						
	C. CITY OR TOWN					. ZIP CO	DE	F. COUNTY CODE (if known)	•		
6 Richland	· • · · · · · · · · · · · · · · · · · ·	, 1 t-	T	1 1 1 1	WA S	9352	1				
15 16		<u> </u>			40 41 42 47		- 31	72 - 34			

CONTR	NUED FROM THE FRONT		
VII. SI	C CODES (4-digit, in order of priority)		<u>and the second </u>
	A. FIRST		B. SECOND
7 49	41 (specify) Water Supply Treatment		
19 19	Serving Federal Facilit	ies julie in	
	C. THIRD		D. FOURTH
6 1	(specify)	c (specify)	
7		7	•
75 10	PERATOR INFORMATION	15 76 - 10	
VIII. 0		NAME	B. is the name listed in
ना		1	Item Vili-A also the
_	.S. Department of Energy-Richland O	nonations	owner?
	.s. bepar there of thereby kichiana o	peracions	YES INO
12 16			39
	C. STATUS OF OPERATOR (Enter the appropriate letter i		D. PHONE (area code & no.)
	FEDERAL M = PUBLIC (other than federal or state STATE O = OTHER (specify)	F (specify)	A 509 376 5441
	PRIVATE	<u> </u>	15 18 - 18 19 - 21 22 - 28
	E. STREET OR P.O. BOX		
77	Paul ECO	, , , , , , , , , , , , , , , , , , , 	
-	. Box 550	11_1_1_1_1_1_1	
28	F. CITY OR TOWN	G.STATE H, ZIP C	ODE IX, INDIAN LAND
el i	F. CITT ON TOWN		Is the facility located on Indian lands?
B R	ichland		
	ichland, , , , , , , , , , , , , , , , , , ,	WA 9935	2 YES W NO
13 14	<u> </u>	40 41 42 47 -	51
X. EXI	STING ENVIRONMENTAL PERMITS		
*	A. NPDES (Discharges to Surface Water) D. PSD (Air Emissions from Proposed Sources)	An aniating named for the
, <u> </u>		DCD VOO 14	An existing permit for the
9 N	WA-000374-3 9 P	P\$D-X80-14	Hanford Site.
	. UIC (Underground Injection of Fluids)	E. OTHER (specify)	
<u> </u>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(energiful Charles of Harles of the
9 U	None 9 F	F-01	(specify) State of Washington
18 19 1	7 18 - 18 16 17 19	70	Radioactive Air Emissions Permi
	G. RCRA (Hazardous Wastes)	E. OTHER (specify)	•
9 R	WA7890008967 9		(specify)
7 13 10	7 18 - 30 15 18 12 19		
XI, MA	P		1、1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	h to this application a topographic map of the area		
the o	utline of the facility, the location of each of its exi	sting and proposed intake and disch	narge structures, each of its hazardous waste
	nent, storage, or disposal facilities, and each well w		Include all springs, rivers and other surface
water	bodies in the map area. See instructions for precise	requirements.	
XII. NA	ATURE OF BUSINESS (provide a brief description)	Sugar Start	The state of the s
		7	
() P1	lease see Attachment A.		
_		•	
ı			·
1			
1			
1			
1			
XIII. C	ERTIFICATION (see instructions)	the second second second second	graduate the second of the sec
			
/ cert	tify under penalty of law that I have personally examined	mined and am familiar with the info	mation submitted in this application and all
attaci	hments and that, based on my inquiry of those p	ersons immediately responsible for	ODTAINING THE INFORMATION CONTAINED IN THE
folce	cation, I believe that the information is true, accurainformation, including the possibility of fine and imp	no anu compiete, i am aware that t Prisonment	uiere are significant penalties for submitting
	- · · · · · · · · · · · · · · · · · · ·		
P .	NE & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
R.D.	Izatt, Director	\	
	conmental Restoration Division		
	ENTS FOR OFFICIAL USE ONLY	No. 3	and the second s
c 1			
C .		<u> </u>	
B 19 1 14			

ATTACHMENT A (NATURE OF BUSINESS)

The 300 Area Filter Plant (315 Building) processes approximately 2 to 3.5 million gallons of water per day from the Columbia River for use in the 300 Area sanitary and fire systems.

Alum is added to the influent water stream as a flocculent. The water flows into settling ponds and then to filters consisting of sand and anthracite coal. Seperan, a drinking water compatible filter aid, is added when turbidity is very high to assist the filtration. The alum, Seperan and other materials from the river which do not settle in the ponds are entrained in the filters.

When the pressure drops across the filters, or when the outlet turbidity approaches an operational limit, water is backflushed through the filters to remove entrained material. This backflush water, containing the alum and other materials from the filter media, comprises the filter backwash. Filter plant backwash flows are 2,000 gpm for a total of 14,000 to 20,000 gallons per backwash. Weekly totals vary due to river turbidity from 140,000 gallons per week (one backwash per day) to 980,000 gallons per week (7 backwashes per day). An estimated yearly total is 16,294,000 gallons.

Currently, the filter backwash is discharged to unlined ponds. These ponds utilize the soil column to filter the sediment as the water percolates downward. This project proposes to replace the unlined ponds with a lined permanent sedimentation pond. The clear water from this lined sedimentation pond would then be discharged to the Columbia River.

DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

JJ Luke/RD Izatt/RE Lerch R. S. Burd, EPA

Incoming: 9100736

Subject

HANFORD SITE NATIONAL POLLUTANT DICHARGE ELIMINATION SYSTEM PERMIT MODIFICATION REQUEST

	Internal Distributio	n	***
Approval Date	Name	Location	w/att
	Correspondence Control R. J. Bliss L. E. Borneman L. C. Brown G. D. Carpenter C. M. Cox P. J. Davis J. L. Deichman L. P. Diediker T. N. Draper G. W. Duffield C. J. Geier E. M. Greager K. D. Hayden D. P. Hughes R. E. Lerch (Assignee) R. A. Lujan J. J. Luke D. L. Pursley D. R. Speer D. P. Trott G. W. Van Sickle T. C. Varljen B. D. Williamson EDMC JJL/LB Attachment same as Letter #9056597	B3-04 H4-57 H4-51 B2-16 B3-65 B2-12 B1-52 T1-30 L6-54 L6-60 H4-57 L6-60 B4-62 N1-05 B2-35 N1-22 H4-57 N1-05 R2-77 H4-15 R1-15 B3-65 B3-15 H4-22 H4-57	